

ANNUAL ENVIRONMENTAL REPORT

For

Muckish Landfill Site

(Waste Licence Reference W0126-1)

By
Donegal County Council
For
Environmental Protection Agency

Reporting Period: January 2010 to December 2010

April 2011

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1. INTRODUCTION

- 1.1 This Annual Environmental Report (AER) has been prepared to meet the requirements of Condition 2.3 of Waste Licence W0126-1 for Muckish Landfill and includes the information listed in Schedule A of the Waste Licence.
- 1.2 Muckish Landfill Site is located in a rural setting on the lower slopes of Muckish Mountain, approximately 5km south east of the village of Falcarragh. The site is within the upper catchment of the Ray River and is situated on an extensive area of blanket bog.
- 1.3 Donegal County Council submitted an application to the Environmental Protection Agency for the continued operation of the landfill site, as required by the Waste Management (Licensing) Regulations 1997. On the 29th of May 2001 the Environmental Protection Agency granted the Council a Waste Licence (registration number W0126-1) for the facility, in accordance with the Third Schedule of the Waste Management Act, 1996.
- 1.4 The Licence granted was for the orderly closure, capping and restoration of the landfill and allows only for the acceptance of inert waste to be used for the purpose of site restoration. The facility ceased to accept waste on the 6th of November 2001 and the site was closed.
- 1.5 The facility had been developed and operated on the 'dilute and disperse' principle, whereby rainfall infiltrated the landfill and generated leachate, the leachate was in turn allowed to disperse into the surrounding environment.
- 1.6 The site was fully restored during 2005/6 in accordance with the approved Restoration and Aftercare Plan.

2. REPORTING PERIOD

2.1 This report refers to the period from 1st January, 2010 to 31st December 2010.

3. WASTE ACTIVITIES CARRIED OUT AT THE FACILITY

3.1 Type of Waste

The licensed disposal activities, in accordance with the Third Schedule of the Waste Management Act, 1996 are restricted to those listed as follows

- Class 1 Deposit on, in or under land (including landfill): This activity is limited to the disposal of inert waste only and leachate treatment at the facility.
- Class 13 Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced: This activity is limited to leachate collection and storage prior to treatment.

4. QUANTITIES OF WASTE

4.1 In accordance with Condition 1 of the waste licence only inert waste shall be accepted for the purposes of remediation, rehabilitation, enhancement and restoration of the facility. The maximum total of inert waste to be disposed of at the site is 40,000 tonnes. The quantities of waste received during each year at the facility are presented in Table 1. 2,500 tonnes of inert waste (for use in restoration works) was accepted onto the site during 2004. The balance of restoration materials were imported during this reporting period and the quantity is shown under 2005 in the table.

Table 1: Waste Quantities Accepted (tonnes)

Waste Typ€	1998	1999	2000	2001	2002	2003	200 4	2005	2006	2007	2008	2009	2010
Domestic	4418	5639	7008	5729	0	0	0	0	0	0	0	0	0
Refuse*													
Inert Waste	0	0	0	0	0	0	2,50	34,667	0	0	0	0	0
							0						

^{*}Figures based on estimates

5. SUMMARY REPORT ON EMISSIONS

5.1 Groundwater

- 5.1.1 Groundwater flow is typically in a north-easterly direction ultimately providing base flow to the Ray River. Groundwater monitoring is carried out at three locations (GW1, GW2 and GW3) as shown on Drawing No 5234.20/102 Monitoring Locations. These groundwater monitoring boreholes were installed at the landfill early in 2000 as per licence requirements. Results of this year's monitoring are presented in Appendix A in tabular and graphical format. Monitoring location GW1 is representative of water quality upstream and monitoring locations GW2 and GW3 are immediately downstream of the waste body.
- 5.1.2 Due to the national 'non-replacement of staff' policy currently in force, the scientific officer responsible for monitoring this site was off on maternity leave for the second half of the year and was not replaced. Consequently samples were not gathered during this period. This was communicated to the EPA but due to the lower amount of results compared with a normal period, results from the first monitoring phase of the current period (2011) have also been reported in this AER to provide a better picture of emissions.
- 5.1.3 Groundwater results show that levels of parameters indicative of groundwater contamination with leachate, such as ammonia and electrical conductivity, are lower than those detected in the last reporting period. Again this period, the only well showing any significant presence of parameters indicative of leachate is GW3, which is situated immediately downstream of the waste body.

5.2 Surface Water

5.2.1 Muckish landfill site is situated in the upper catchment of the Ray (Duvowen) River. The landfill site is based on an area of extensive blanket bog. This river forms the northeastern boundary of the landfill. Surface water monitoring is carried out at four monitoring locations as shown on Drawing No 5234.20/04 Monitoring Locations. Monitoring points S1 and S2 are upstream of the waste body. Results continue to show that previous low levels of leachate contamination of the Ray River have been virtually eliminated since the capping of the site.

5.3 Leachate Composition

5.3.1 Leachate monitoring is carried out at one monitoring location point on the site as shown on Drawing No 5234.20/04 Monitoring Locations. All parameters are consistent with typical leachate composition ranges (as presented in EPA Manual 'Landfill Operational Practices'), and leachate is similar (slightly weaker) in composition to that detected during the previous reporting period.

5.4 Landfill gas

5.4.1 Landfill gas monitoring is undertaken at three locations as shown on Drawing No 5234.20/102 Monitoring Locations, which are located within the site boundary in waste. Gas monitoring on the mature waste body is indicative of methanogenic gas processes that would be occurring under anaerobic conditions.

6. SUMMARY OF RESULTS AND INTERPRETATIONS OF ENVIRONMENTAL MONITORING.

6.1 Summary of Results

All monitoring data for the period is contained in Appendix A. This data is summarised in Graphs also contained in this Appendix.

6.2 Update of Monitoring Locations

Monitoring locations for the site are as given in Table 6.1. These locations are shown on Drawing No 5234.20/04 Monitoring Locations and grid coordinates for the points are included on this drawing. A post restoration topographical survey was undertaken in July 2006. This was submitted to the Agency under separate cover. There have not been any new monitoring locations installed during this reporting period.

Table 6.1: Monitoring Points

	Monitoring Locations
Landfill Gas	P1, P2, P3
Groundwater	GW1, GW2, GW3
Leachate	L1
Surface Water	SW1, SW2, SW3, SW4

6.3 Interpretation of Environmental Monitoring

6.3.1 Groundwater

Condition 9 and Schedule D of the Licence requires the Licensee to monitor groundwater water quality at various locations on and outside the site on a monthly, quarterly and annual basis for those parameters as listed in Table D3 of the Waste Licence. Since restoration the Agency has agreed to reduce monitoring frequency to bi-annually. These results have been compared to EC (Quality of Water Intended For Human Consumption) Regulations, 1988, the European communities (Drinking Water) Regulations, 2000 and the EPA Interim Report, Towards Setting Guidelines Values for the Protection of Groundwater in Ireland.

The majority of the parameters measured are below the recommended limits. Those exceeding the limits are discussed below.

Upstream

Levels of iron are slightly raised at GW1 relative to MAC.

Downstream

Monitoring at GW2 and GW3 detected elevated levels of Ammoniacal Nitrogen (max 2.7mg/l), and iron (max 879ug/l), pH (5.85) and nutrients during the reporting period.

These results generally indicate that a small amount of leachate was being released from the waste body into the immediate groundwater environment. The downstream wells, however, are very close to the waste body and ammonia levels are very low.

6.3.2 Surface Water

Condition 9 and Schedule D of the licence requires the licensee to monitor surface water at four locations in the vicinity of the site on a quarterly and annual basis for those parameters as listed in Table D3 of the waste licence. Since restoration, bi-annual monitoring has been agreed with the Agency.

These results have been compared to EC (Quality of Surface Water Intended For The Abstraction of Drinking Water) Regulations, 1989. The majority of the parameters have been below the recommended limits for A1 category surface water. No parameters have been detected in excess of MAC during this reporting period.

6.3.3 Leachate

Leachate quality can vary during the lifetime of landfill site depending on the phase of decomposition of the waste. Leachate results for the reporting period are presented in Appendix A and some of the characteristic parameters of the leachate are listed in Table 6.2 below.

Table 6.2: Leachate Concentrations

		andfill Site 010	landfills acce	mples from UK epting domestion sults in mg/l	
PARAMETER	Min.Conc	Max.Conc	Min.Conc	Max.Conc	Mean
Ammonia (mg/N)	1.39	246	<0.2	1700	491
BOD	10.5	10.5	4.5	>4800	>834
COD	44	1282	<10	33,700	3078
Chloride (mg/l)	398	398	27	3410	1256
Iron (ug/l)	N/a	N/a	0.4	664	54.4
Potassium(ug/l)	N/a	N/a	2.7	1480	491
TON (mg/l N)	N/a	N/a	/	/	/
Conductivity (mS/cm)	300	5140	503	19,200	7789
рН	6.77	7.62	6.4	8	7.2

Leachate results have been compared to "Typical Leachate Composition of 30 Samples from UK/Irish Landfills accepting mainly Domestic Waste" (Landfill Operational Practices). All parameters are consistent with typical leachate composition ranges. The leachate composition is similar (slightly weaker) to that detected during the last reporting period.

6.3.4 Landfill Gas

Gas monitoring on the mature waste body is indicative of methanogenic gas processes that would be occurring under anaerobic conditions. Methane concentrations range from 18% to 51.6%. Carbon Dioxide levels range from 11.2% to 42.7%. There are no monitoring locations outside of the waste body.

7. VOLUME OF LEACHATE PRODUCED AND VOLUME OF LEACHATE DISCHARGED

- 7.1 Leachate is been tankered on a weekly basis from the collection sump on site. Records show that during this period 2960m³ of leachate was removed from the site and tankered to Donegal County Council's Wastewater Treatment Plant in Letterkenny.
- 7.2 A water balance calculation has been produced for this period and is shown in Appendix B. This indicates that the estimated volume of leachate being produced at the site for the reporting period is 2402m³. The water balance calculation is attached in Appendix B.

8. CAPPING AND RESTORATION OF COMPLETED CELLS / PHASES

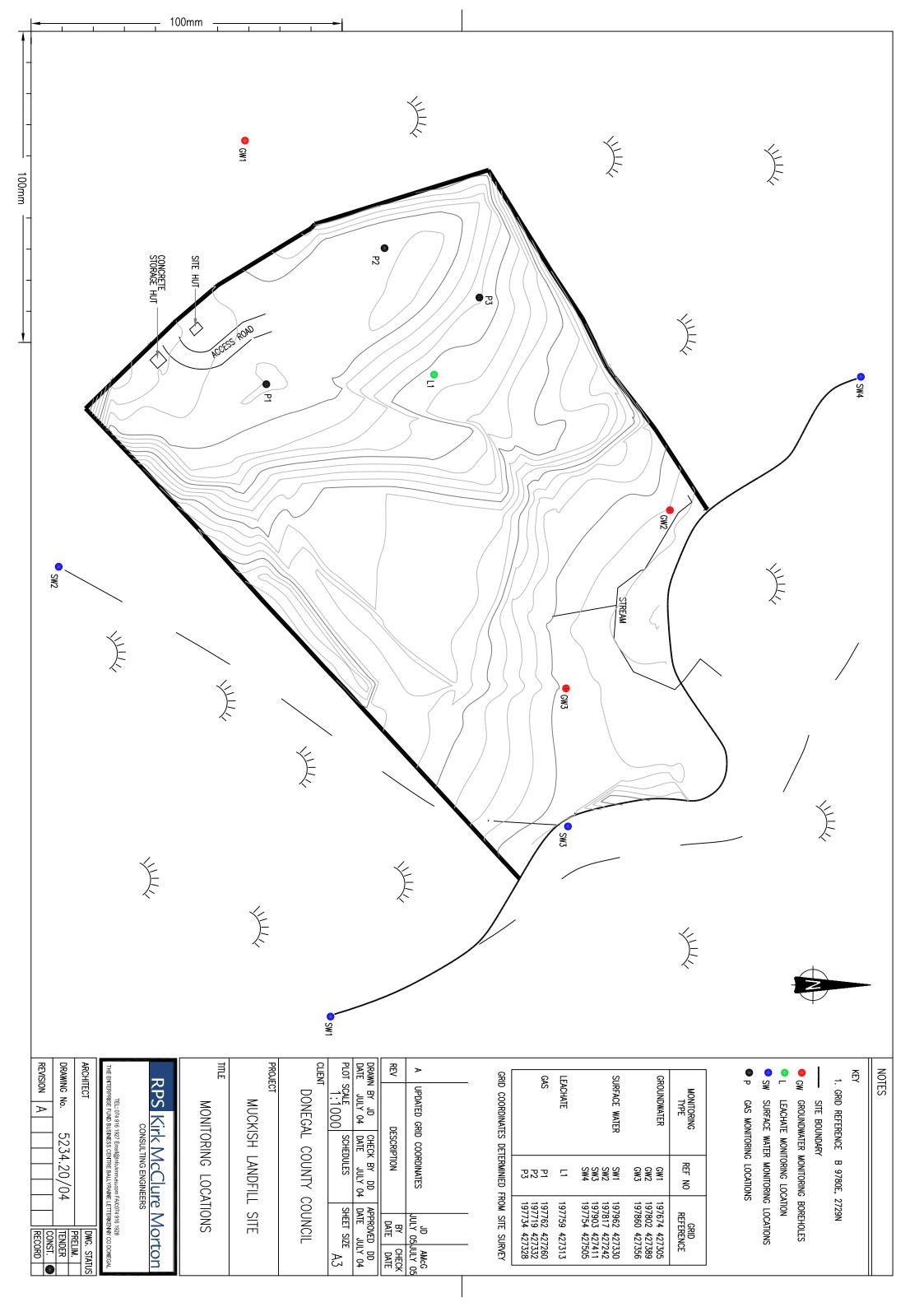
8.1 The site is fully restored.

9. REPORTED INCIDENTS AND COMPLAINTS SUMMARIES

- 9.1 Donegal County Council reports to the EPA emissions exceedances on an on-going basis. In the case of Muckish, there are no perimeter gas wells, but levels of ammonia in excess of 0.2mg/l in either surface water or groundwater monitoring locations are reported as incidents with each bi-annual report.
- 9.2 Other than the on-going exceedance incident reporting described above, no further incidents occurred during this reporting period, and therefore none were reported to the EPA.
- 9.3 No complaints were received during the reporting period.

10. REVIEW OF NUISANCE CONTROLS

10.1 The site is inspected regularly for all types of nuisances (flies, pests, dust, litter and illegal dumping, birds and odours) and where any action is deemed necessary the appropriate steps are taken in accordance with the EMS.



APPENDIX A MONITORING DATA

Location	STREET, STREET	Charles aftern						MILEKIEL	MICKIST PAICATACH CO DONACH		leu.					
Sample Type	阿加州西部城								surface water	ater						
SIE No									SW1							
Date of Sample		Jan	Feb	Mar	Apr	May	Jun	137	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Lab No		I		1	1	1	3318	ı	I	1	ŀ	ŀ	1	l	l	1794
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Temperature Temperature	S	1	ı	1	1	1	18.20		I		-	***			-	11.90
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Ammonical Nitrogen	mg/l	1		1	ı	1	<0.01	ı	ı	1	1	1	1	1	1	0.04
COD	l/gm	ı	1	1	1	I	-	1	1	I	I	ı	ı			7
BOD	mg/l	1	1	ı	1	1	0.16	1	1	1	1	-			-	0.45
Dissolved Oxygen	l/gm	i	1	I	1	1	11.33	1	1		-			-		11.39
SS	mg/l	I	1	1	-	I	пd	1	-	I				-	ı	p/u
Residue on Evaporator	l/gm	1	ı	1	1	_	1	-	-	1			1		1	ſ
Calclum	l/gu	1	1	1	1	-	-						-	-	1	1
Cadmlum	/Bn			1	-	i	-	-	-	1	1	I		1	1	1
Chromlum	l/Bn	1	I	1	1	1		1				-	-			ı
Chloride	mg/l		1	1	1		24		1		-	1	ı	1	1	I
Chlorine	l/gm	1	-	1	1	1	-		-	1		1	-	1		1
Copper	ug/l	1		-	-	-	I		1	1	I	ı	ı	1	1	I
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Potassium	l/Bm	I	1	1	1	1	ı	I	1	I	i	1	I	I	1	I
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***no result/ no sample --- not applicable n/d none detected

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Sample Type								surface water	water						
Site No								SWZ	7						
Date of Sample	Jan	Feb	Mar	Apr	May	lun	Inc	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
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Location								MUCKISH	Muckish, Falcarragh, Co Donegal	m, Go Dor	egal					
Sample I ype									surface water	vater						
Site No									SW3							
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BOD	mg/l	1	1	1		-	0.21	1	1	1	ı	ı		1	-	0.30
Dissolved Oxygen	mg/l	I	1			-	10.74	1	1	1	1	ı				10.62
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Chlorine	//Bm	1		1	1	I	1	l	ı	1	1	1	-		1	1
Copper	l/Bn		i	ı	ı	1	1		-		-		ı	1	1	1
Cyanide	l/gm	1	1	l	-		1	-	1	ı	1	-				1
Dissolved Iron	ug/l	1	-	1	-		1	1	ı	1	1	1	ı	ı	ŀ	!
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l otal Oxidised Nitrogen	l/gm	i	1	I	ı	ı	0.24	1	1	-	1	-	1	ı	1	1
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Total Phenois	l/bm		ı	1	ı	l		ı	l							
Phosphorous	l/gm	1		-				-	ı	1	1		ı		-	
Selenlum	mg/l	ı	I	1	1	_	-		ı	J	ı	I	1			I
	l/gm	-	-	1	ı	1	1	1	1	1	-			-	ı	1
	Toxic Units	I	1	1	1	ı	1	1	-	1	****	1	****	1	1	1
* SECTION SECTION IN	Toxic Units	I	1	1	1	1	ı	ı	-		-	ı	1	ı	1	1
Nitrite	l/6m	1		ı	1	1	0.007	ı	1	ı	I		-	-	1	1
Nitrate	I/BH	1	ı	1	I	1	0.2340	1	***	1	ı	ı	1	-	1	-
Phosphate - OKI HO	l/gm	-		1	I	1	0.024	1	1	1	ŀ	1	ı	1	ı	-
Frospirate - IOIAL	III III					1	1		1	ı	1	1	I	1	1	-
T CONTORMS				ı	1	1	ı	ı	1	1		1	ı	ı	ı	-
racel collforms			i		ı	1	1	ı	1	1	1		ı	1	1	1
Deptn		I	1	1	ı	1	1	1	1	-	ı	1	1			8

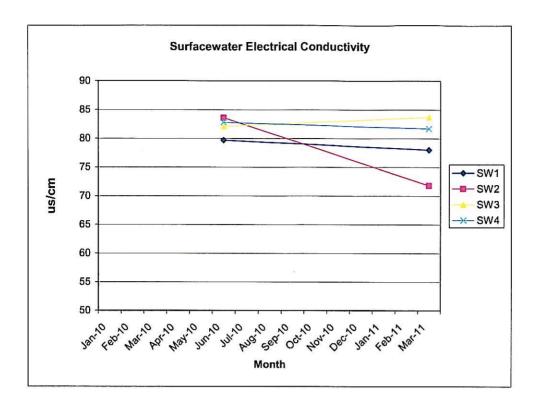
Location							Windshift Spiels	Muckish	Muckish, Falcarrach, Co Donegal	h. Go Do	negal		The many states and the			
Sample Type									surface water	water						
Site No									SW4							
Date of Sample		Jan	Feb	Mar	Apr	May	Jun	Inc	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Lab No		-		-	-	-	3321	1	1	1	1	-	-			1797
HO THE THE PARTY OF THE PARTY O		ı	1	1	1	1	7.00	1	1	1	1	1	I	1	1	7.12
Тетр	ပ	I	1	1	I	I	17.00	1	1	i	ı	1	ı	ı	ı	14.20
Electrical Conductivity	uS/cm	1	1	ı	i		83	1	1	1	1	1	1	I	1	82
Ammonical Nitrogen	mg/l	1	-	-	-		0.10	-	1		1	1	-			0.04
COD	mg/l	1	1	1	1	-			-	-	1	1	1		-	32
BOD	mg/l		-	-	****		0.24	1100	-		-	-	****		:	0.33
Dissolved Oxygen	l/gm				******	1	10.73	1	1		1	ı	1	-	1	10.62
SS	l/gm	ı	ı	1	ı	1	ည	1	1	1	1	1	ı	1	1	p/u
Residue on Evaporator	l/bm	1		1	1	I	ı	ı	1	ı	1	ı	ı	1	1	1
Calclum	l ng/l	1		1	-		1	ı	1	1	-	1	1	1	1	1
Cadmlum	ug/l	-	ı			1	1	1	1	1	1	1	1	I	1	I
Chromlum	l/bn		1		ı	1	1		1	-	-	ı	ı		ı	
Chloride	mg/l			-	ı	1	23	-	-	-	ı	ı	1	1	-	
Chlorine	l/bm	-	-	1	ı	-	ı	-	-	-	1	1	ı	ı	:	1
Copper	//bn	1		1	****	ı	1	1	ı	-	I	ı	1	1		1
Cyanide	I/6m	ı	1	ı	1	ı	1	1	1	ı	1	ı	1	ı	1	ı
Dissolved Iron	l/gu	I	I	ı	ı	ı	ı	ı	ı	ı	1	1	1	1	1	ı
Lead	l/gu		1	-	ı	1	1	1	ı	ı	ı	1	1	1	ı	ı
Magneslum	l/gu				1	l	1	1	1	ı	ı	1	ı	1	ı	ı
Manganese	l/gu	I	1	-	1	-					-	-	1	-		-
Mercury	ug/l	1	1	I	I	I	1	1	-	1	1	-	-	-	-	-
Nickel	mg/l	ı	1	ı	1	ı	I	1	1	ı	1	1	I	E		1
Potasslum	mg/l	1	1	I	1	ı	1	1	ı	ı	ı	ı	1	1	1	1
Sodium	l/gm	I	1	I	1		1	1	I	*****	1	ı	1	1	1	i
Sulphate	∏/bm	I	1	1	I	ı	1	ı	ı		ı	i	1	1	1	1
Zinc	l/gu		1	-	1	l	-	ı	1	ı	1	ı	ı	I	I	ı
Total Alkalinity as CaCO3	l/6m		-	1	1	ı	-	1	1	I	1	ı	ı	1	1	1
Total Organic Carbon	l/gm	1	1	1		1	1	1	ı	I	ı	ı	1	1	1	1
Total Oxidised Nitrogen	l/6m	ı	:	1	1	-	0.23	1	ı	-	1	1	1	1	1	ı
Arsenic	mg/l	1	1	ı	1	ı	ı	1	1	1	1	ı	1	ı	ı	1
Barlum	mg/i			I								1	1	1	1	
Boron	l/Gn		-	I		I	I	ı	ı	1	1	ı	I	1	1	
Total Bhanda	II BILL															
Phosphorous	[/oE									1				1 1		
Selenium	ma/l	ı		****	-	***	1	-	-	1	1	ı	1	i	ŀ	ı
Sliver	l/bm	ı	1	I	1	ı	1	ı	I	ı	I	I	1	1	ı	1
×	Toxic Units	ı	1	1	1	1	1	1	1	1	1	ı	ı	ı	1	1
Microtox	Toxic Units	-		1	1	1	1	1	1	ı	1	ı	ı	ı	1	1
Nitrite	l/b/m	1	-	-	1	1	0.007	1	1		-	-	-	-		-
Nitrate	mg/l	1	1	l	1	ı	0.2	1	Ü	l		1	1	I	l	1
Phosphate - ORTHO	∏6m	1	ı		1	I	0.003	ı	ı	ı	ı	1	1	1	ļ	
Phosphate - TOTAL	пвл	I	1	I	1	1	1	1	1	ı	!	1	I	1	1	ı
Total Collforms	日本日本の日本日本	I	ı	ı	1	1	ı	1	ı	l	ı	i	:	*****		-
Facel Colforms		1	1	1	ı		1	1	I	ı	I	I	1	1	1	-
Depth	E									1		1	I	-	1	-

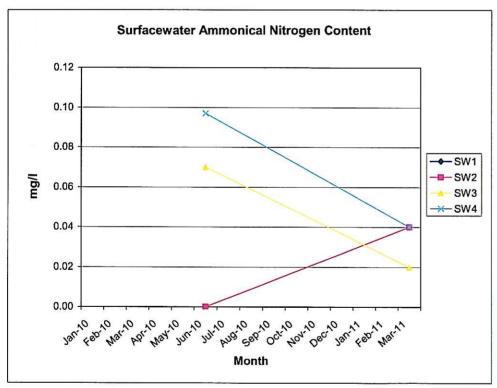
Cocation		SALE PROPERTY SALES		THE PROPERTY OF THE PARTY OF TH	THE PROPERTY OF THE PARTY OF TH	CONTRACTOR CONTRACTOR	SHASICITATIONS	Mirrahiah	Minister Colonnash On Denney	A. Can	, come		CINTREPRESENTATION OF	TA POSCORDE DE PARTICIONE DE PARTICIONE	September 42 April 1997	Water Company of the Party of t
Sample Type									aroundwafer	vafer						
Site No									GW1							
Date of Sample		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Lab No		1	ı	ı	ı	1	3322	ı		ı	ı		1		-	1837
Hd	THE PROPERTY OF THE PARTY OF TH	I	****]	1		99.9	1	1	1	ı	1		ı	1	6.67
Temp	O.	1	1	1	1	1	15.90	1	1	-	-	I	-			13.00
Electrical Conductivity	mS/cm			1	1	-	187	1	1	ı	-	1	-	-		150
Ammonical Nitrogen	l/gm				I	I	0.01		1		-	:	1	1	1	0.04
COD	l/bm	1	1	I	-	1	ı	ı	1		I	1	,		-	48
BOD	l/gm	I	1	I	1	1	1	I	-	1	ı	ŀ	i	1	1	1
Dissolved Oxygen	Пдт П	1	I	-	1		3.34	-	-	1	1	ı	1	ı		10.56
SS	l/gm	-	-	-	-	1	***	1	1	ı	ı	1	1	1	1	1
Residue on Evaporator	mg/l	-	-	-	1		ı	ı	i	1	ı	1	1	i	-	1
Calcium	l/gu	I	ı	I	ı	-	-	-	1	1	ı	1	I	ı	1	1
Cadmium	l/gu	1	1	I	1	1		-	-	ı		-	1	1	1	1
Chromlum	l/Bn	1	ı	ı	1	1		-	-		I		1	1	1	1
Chloride	l/gm	1	1	1	1	I	25	-	1			1	ı	ı	1	1
Chlorine	l/gm	1			ľ	1	ı	1	1	-			-	1	1	1
Copper	ng/l	I	1	I	1	1	1	-				1	L	ı	1	1
Cyanide	mg/l		1	ı	ı	ı	1	1	1	1	ı	1		ı	ı	1
Dissolved Iron	l/gn	:		I	i	1	4398.00	1	1	1				ı	1	i
Lead	re ng/l	-	-	i	ı	I	-	1	-	1	-		1	j	ı	1
Magnesium	l/Bn	1	1	1	1	-	1	1	1	ı	I	-			1	1
Manganese	l/on	ı		1	1	1	I	I	1	ı	-	-		-		-
Mercury	Jon Jan	1	١	ı	1	1	ı	1	1	1	1	ı	1	-		-
Nickei	I/BW	١	1	ı		1		ı	ı	ı	I	1	1	ı	1	1
Potassium	l/Bm	1				1	3.3	ı	I	1	ı	ı	1	1		1
Enibos	l/6m	1	1	1	ı	I	09.9	1	i	-	1	1	!	1	1	1
Sulphate	mg/l	1		ı	1]	ı	1	ı	I	1	ı	1	1		
Zinc	l/Bn	1	I	ı	ı	1	:	1	I	ı	1	1	1	-		•
i otal Alkalinity as CaCO3	I/BM	ı	1	1	I	7	l	1	1	ı	I	1	1	1	1	-
i otal Organic Carbon	mg/l	1	ı	1	1	7	3.9000	1	1	1	-	1	I	1	ı	-
lotal Oxigised Nitrogen	I/Bull	1	1	1	:	1	0.35	ı	1	ı	ı	1	I	-	!	1
Arsenic	Ng I	1			1		1	1	ı	1	1	ı	1	ı	-	Ī
Darium	1/611						1	1	1	1	1	1	J	1	1	i
Florida	light.						ı				ı	1			-	1
Total Phenole	l/om						50									1
Phosphorous	Па/	i	1	ı	1	1	2 1	l		1						i
Selenium	l/om	-	1	1	1	1	Ī	1	1	1		1	I	ı		
No. of Concession (Concession	l/gm	ı	ı	ı	1	ı	1	1	ŀ	1	1	I	ı	1	ı	1
	Toxic Units	ı		1		1	1	1	1	ı	ı	1	ı	ı	-	ı
K STRINGSTONE S	Toxic Units	1		-		-	-	1	1	1	ı	1	I	1	1	i
Nitrite	l/gm	1	1	1	1	1	0.008	-		-	-	1	1	1	ı	l
Nitrate	Пgш	I	ı	ı	1	1	0.270	-		-		1	1	1		
Phosphate - ORTHO	mg/l	1		1	1	ı	0.063	1	ı	1		1	-		-	
Phosphate - TOTAL	l/Bm	ı	ı	1	1	1	ı	1	-	ı	ı	I	ı	1	1	1
l otal Collforms		1	1	ı	ı	1	1	ı	1	I	1	I	ı	I	1	1
racel Colltorms		1	1	ı	I	ı	ı	1	1	ı	1	ı	1	I	ı	1
Depth	M.	ı	1	I	ı	I	2.4	-	1	I	1	1	1	1	1	2.60

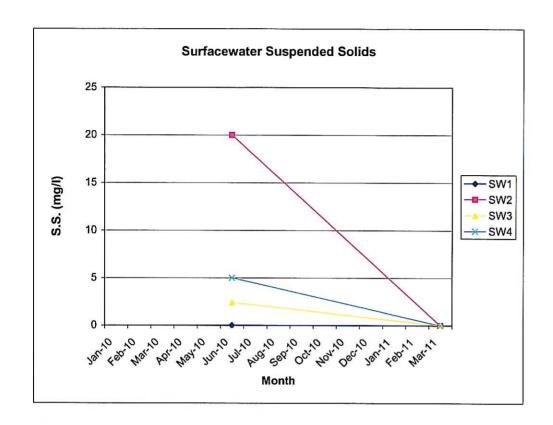
Location								Mirchigh	Mirkish Falcamach Co Donagal	th Co Do	Jenar	UNINESCENDENCE	STATISTICS OF STREET	Property Commence	Metablication and the second	
Sample Type									groundwater	vater						
Site No									GWZ	2						
Date of Sample		Jan	Feb	Mar	Apr	May	unr	lor	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Lab No		1	ı	1	1		3323	1	1	ı	ı	I	l	ŀ	-	1838
Hd		1	1	1	-		6.18	ı	-	8		1	1	ŀ	1	5.85
Temp	C		١	I	1	1	16.90	1	-	-		-	1	-	****	12.30
Electrical Conductivity	uS/cm		I			1	120	1	1	1	1	I	1	-	-	89
Ammonical Nitrogen	mg/l	1	1	ı	ı	1	0.58	ı	1	1	ı	ı	I	1	-	0.10
COD	mg/l	1		-	1	1	1	1	1	ı	1	1	I	1		85
BOD	mg/	I	1	1	1		1	I	ı	ı	1	1	1	1	-	-
Dissolved Oxygen	mg/l	I	ı	1	I	1	5.34	I	1	1	1	1	ı	1	1	3.89
22	mg/l	I	ı	1	1	ı	I	1	1	1	ı	1	-	I	-	ı
Residue on Evaporator	mg/l	1		1	i	1	1	i	1	I	ı	1	1	1		-
Calcium	l/Bn	1	I	!		ı	1	1	l	1	1	1	1	-		1
Cadmium	l/Bn			1		1	1	1	1	1	i	ı	1	1	ı	-
Chromlum	l/gn	-	1	ı	ı	I	I	1	ı		1	-		****	-	1
Chloride	l/gm	1	ı	ı	I	1	27	1	-				-	I	ı	ı
Chlorine		-	1	1	ı	1	1	ı	1	1	1		-		1	l
Copper	//Bn	i	ı	1	1	1	1	1	1	-	1	-		-		1
Cyanide	mg/l	-	1	1		i	1	i	ı	1	1	-			-	1
Dissolved Iron	ng/l	1	1	i	1	ı	879.10	ı	-	1	1	1	****	:	1	I
Lead	ng/I	1	١	ı	1	I	1	ı	ı	_	1	1			1	
Magnesium	ng/l	ا	ı	ı	1	ı	ı	1	ı	ı	1	ı	1	1	-	
Manganese	ng/l	١		I	1	ı	-	I	ı	ı	ı	ı	-			
Mercury	/bn		ı	ı	1	1			ı	I	1	1	1	-	-	-
Nickel	mg/l	1	1	ı	1	1		1	1	I	1	1	ı	1	-	1
Potasslum	l/gm	!	1	ı	-	i	8.30	1	1	1	1				-	ŀ
Sodium	mg/l	ı	1	*****	1	ı	11.40	1	1	1	1	1	1	-	-	
Sulphate	mg/l	I	I	I	1	1	-	ı	1	1	1	I	1	-	-	
Zinc	ng/l	1	1	-	l	I	1	I	i	ı	Î	-	1	1	1	-
Total Alkalinity as CaCO3	mg/l	1	I	I	ı	1	1	ı	ı	I	ı	1				•••
Total Organic Carbon	mg/l				1	I	32.00	1	1	1	ı	ı	ı	1		-
Total Oxidised Nitrogen	mg/l			1	ı	****	0.00	-	1	1	1	ı	1	ı	-	
Arsenic	l/gm			1	1	1	1	1	1	1	-	1	ı	ı	1	I
Barium	I/BIII	1		!	1	1	1	1	ı		1	ı	1	-		ı
BOLOII	ngu Ugu	ı		1	1	l			1		1	ı	i	1	1	1
Total Dhandle			1	1		-	100	1	1	ı	1	I	ı	1		1
Phosphorous	IIBIII		ı				6.03	ı					ı	1	1	1
Selenium	l/om	1	1		l	l	l									
Sliver	ma/l	1	1		1	1		ı	H							
×c	Toxic Units	1	1	I	ı			1	1	1	I	ļ	l			
	Toxic Units	-		ı	ı	ı	ı	ı	ı	ı	I	ı		ŀ		
	l/bm		ı	ı	1	ı	-	1			1	1	1			
Nitrate	l/bm	ı	ı	1	1			I	ı	1	I	ı		ı	ı	ı
Phosphate - ORTHO	/6m	1	1	ı	1	1	0.062		-	1	-				ı	
Phosphate - TOTAL	mg/l	1	I	1	1	1	1	1	1	1	1	1	1	-		
l otal Collforms		1	1	ı	1	1	I	1	1		1	ı	1	1	ı	1
racel Colfforms		I	ı	ı	ı	1	1	1	1	1	1	1	ı	1	ı	1
Depth	E	1	ı	!	1	1	0.35	i	-	I	I	ı	I	ı	I	1

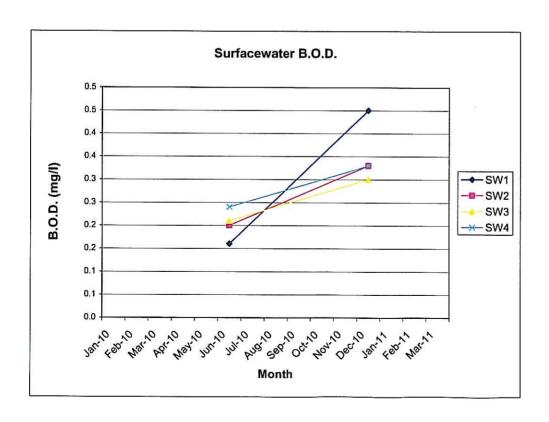
Location	STATE STATE STATE OF	STATE OF THE PARTY	STATE OF STREET	THE REPORT OF THE PARTY OF THE	日本の日本の日本の日本の日本	STATE OF PERSONS ASSESSED.	MARKET SECTIONS	Mirchigh	Mirchigh Estenment Co Donoral	th Co Do	lenge	CHSSHCMPS MACH	ST SEPTEMBERS OF STREET		CALLEAN SHIP IS STREET, SECONDO	PRESENTANT REPRESENTANT IN
Sample Type									aroundwater	rater						
Site No									GW3							
Date of Sample		Jan	Feb	Mar	Apr	May	Jun	luf	Aug	Sept	Ö	Nov	Dec	Jan	Feb	Mar
Lab No		-	1	ı	1	1	***		1	I	ŀ	I	-	1	1	1839
Hd Harris Harris		1	1	-		-	***	-	1	I	1	1		ı	Î	6.71
Тетр	C	-		1	ı	ı	***		ı	-	-	-	ı	1		11.70
Electrical Conductivity	uS/cm				1	1	***	ı	1	-		-	-		-	413
Ammonical Nitrogen		ı		ı	1	ı	***		-		-	-	-	ı	1	2.70
COD	mg/l	I	1	ı	ı	1	***	1		-				1		39
BOD	mg/l	I	1	1	-	-	***	ı	ı	1	1	1	1			
Dissolved Oxygen	mg/l	-	1	1	-		***		1	1	1	1	1	ı	1	3.47
88	mg/l	I	1	1			***			1	1	1	1	1	1	1
Residue on Evaporator	l/gm	1	1	I	1	-			-	1	1	1	ı	1	1	i
Calclum	<u>ug/l</u>	1	1	ı	1	1	1	ı	1	-	-	-		1		1
Cadmium	ng/l	1	1	I	I	1	i	-		-	1	1	ı	1	1	1
Ghromlum	ng/I					1	1	1	1	1	1		ı		-	1
Chloride	mg/l	ı	1	1	I	1	1		1		-		-	ı	1	ı
Chlorine	mg/l	1	ı	1	ı	ı	1	ı	F		-		-	1	1	1
Copper	l/Gn	I	-	ı	1	1	1	ı	1		-	-	-		1	1
Cyanide	mg/l	I	I	ı	I	-	1	-		1	1	1	1	1	1	ı
Dissolved Iron	ug/l	1	I	-				1	ı	1	1	1	ı	1	I	ı
Lead	ug/l	I	ı		1	-	-	-	-	1	1	1	1	1	1	ı
Magnesium	ug/l	1	1	1	1	1	-		1	ı	1	1	ı	ı	-	1
Manganese	l/gu	ı	1		-	1	-		ı	1	ı	1	1	1	1	I
Mercury	l/gu	I	ı	1	1	1	-	-		1	1	ı	1	1	1	1
Nickel	mg/l	ı	1	1	1	1	1	1	1	-	_				1	1
Potassium	mg/l	1		-	1	I	1	ı	1	1	1	1	-		****	
Bodium	mg/	I	1	1	1	1	1	ı	-	ı	1		1	1		1
Sulphate	mg/!	1	1	I	1	I	ı	J	ı	ı	1	-	-		1	ı
Zinc	ng/l	I	1	I	1	1	-	ı	ı	1	ı	1	1	-	-	-
I otal Alkalinity as CaCO3	l/gm	1	1	I	1	-	-	1	1	ı	ı	1	ı	1	1	-
T i otal Organic Carbon	mg/l	ı	1	I	1	1	18	ı	1		-	I	1	1	1	
lotal Oxigised Nitrogen	I/BIII	ı			1	1	* * *	1	ı	1	1	1	1	-	-	<0.01
Alsellic	II		1	1	1		1	I	ı	1	1	ı	ı	1		1
Boron	1/2/1					1	1	ı			1		ı		1	1
Flouride	ma/l		I	1											1	
Total Phenois	Пап п	1	-	1	ı	ı	ı	ı	1	I		I	l			
Phosphorous	mg/l	-	-		-	ı		1	1	ı	I	ı	ı	I	1	l
Selenlum	l/gm	I	1	I	I	I	-	1	-	-	ı	1	ı	1	1	1
	Mg/l	-	1	1	1	1	Î	1	I	ı	-	-		-	1	1
	Toxic Units		ı	1	1	1	i	1	1	1	I	-	ı	-	1	1
	Toxic Units		1	1		ı		ı	ı	1	1	ı		-	i	
Nitrite	l/gm	1	1	1	1	1	1	1	1	1	1		ı	1	I	
Nitrate	l/gm	1	i	ı		ı	1	1	1	1	1	1	l	1	1	<0.03
Phosphate - ORTHO	l/6m	ı	1	ı	ı		I		1	ı	1	1	1	1		<0.04
Phosphate - 101AL	mg/l	1	1	1	1	1	ı	ı	1	I	1		1	ı	1	
		ı	1	1	1	ı	ı	1	1	1	I	I	ı	ı	1	1
racel Colfforms		1	-	1	1	1	1	ı	1	ı		1	1	ı	ı	1
Depth	Ш	1		1	I	:		I	1	1	1	1	1			0.20

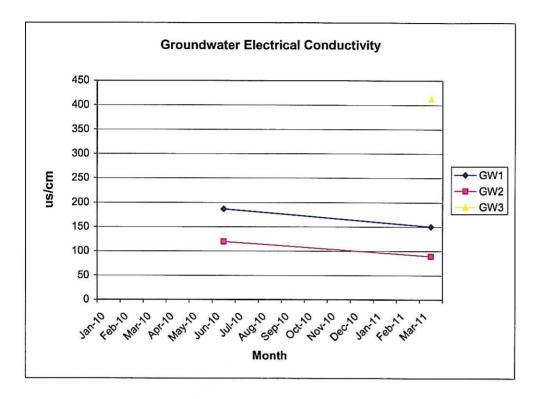
Location							STATE STATE OF	Muckish	Muckish. Falcarraph. Co Donegal	th. Co Do	regal				THE LEWIS WAS RESTORATED BY	
Sample Type									leachate	非						
Site No									П							
Date of Sample		Jan	Feb	Mar	Apr	May	unr	inr	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Lab No	medical participation	1	J	1	ı	1	3325	1	1	ı	l	1	-			1840
Hd		1	-	1	1		7.62	-	-	ı	1	1	ı	1	ı	6.77
Тетр	Comments of the state of the st		-	1	ı		16.80		-	1	-		1	1	1	11.70
Electrical Conductivity	uS/cm	I	1	1	1	1	5140	ı	ı	I	1	-			-	300
Ammonical Nitrogen	mg/l		1	-	1	1	246	1	1	I		1				1.39
COD	mg/[I		I	-	-	1282	ı	1	ı	1	1	-	-		44
BOD	mg/l	1	1	1	1	ı	10.50	1	1	-			****		-	1
Dissolved Oxygen	mg/l	1	-	1	[ı	5.22	ſ	1	1	1	-	-			8.02
SS	l/gm	-	1	I	I	1	422	ı	1	ľ	-	-	1	-	1	ı
Residue on Evaporator	l/gm	1	I	ı	ı	ı	1	-	-	-				1	1	ı
Calcium	l/Bn		ı	1	I	1	_	-	-		1		-	1	1	1
Cadmium	/bn		I	1	1	1	1	-	-		-	-	-	1	1	ı
Chromlum	l/6n	I		ı		-	-	-		-	1	I	ı	ı	1	1
Chloride	l/gm	1	I	1	1	I	398	-	-		-	1	1	ı	1	ı
Chlorine	mg/l	1	1	ı	I	1	1	1			_		-	1	-	1
Copper	l/gu	1	1	1	1	-			1	****	-	1	1	1	1	ı
Cyanide	mg/l	1	l	-	I	1	1	1	1	1			-	****	1	1
Dissolved Iron	ug/l	1	1	ı	I	ı	I	1	1	-		1		1	I	1
Lead	ng/l	1	1	1	I	ı	ı	1	-			-	1	1	i	ı
Magnestum	l/gn		****	1	I	1	1	ı	ı	1	-	1	1	1	i	1
Manganese	l/Bn		1	1	1	ı	ı	ı	ı		-	-	-	-	ı	1
Mercury	l/gu		ı	1	1	1				1			1	1	1	1
Nickei	l/gm	I	1	I	ı	-	1		I		-	-	1	1		
Potasslum	l/Bm	1	ı	ı	1	1	1	1	1	1					1	1
Sodium	mg/l	1	ı	-	ı	1	1	ì	1	1			-	-	l	I
Sulphate	l/Bm	1	1	ŀ	1	1	ı	1	1	-	-				1	i
Zinc	ng/l	1		1	1	I		1	ı	1	1	-	-			-
Total Alkalinity as CaCO3	l/gm	I	1	1	I	i	ı	1	ı	1			1	1	1	ı
Total Organic Carbon	l/bm	I	1	1	-	ı	1	ı	1	1	ı	1	1			
I otal Oxidised Nitrogen	l/gm	1	I		1	1	1	1	1		I	ı	ı	1	I	<0.01
Arsenic	l/gm			1	ı	I	1	ı	1	1	1	1	1	1	1	1
Barlum	I/gm	i		1		1	1	I	1			I	1	1	1	I
Florings	ng/l	1		-	ı	1	ı	ı	1	1				!	1	i
Total Diangle	100	I		1		I	•	1	ı	1	1	I		1	1	i
Phosphorous	1/01	1								1 1	1 1	1 1	ı	ı	1	
Selenium	ma/l	ı	1	1	ı	1	1	1	ı		ı		I			
Silver	I/bm	1	ı	ı	ı	1	1	1	1	I	ı	1				
	Toxic Units	1	ı		ı	ı	I		ı	1	ı	1		ŀ		
STATE STATE OF	Toxic Units	1	ı	ı		1	-	1			ı		ı	1	1	1
Nitrite	l/bm			1	1	-	-	-		ı	I		1	I		1
Nitrate			-	-			1	1		1					ı	<0.03
Phosphate - ORTHO	mg/l	1	1	ì	1	1	0.600	1	1	ı		1		-	1	<0.04
Phosphate - TOTAL	mg/l	1	1	I	1	i	1	1	•	1	1	i	1	1	1	-
Total Collforms		l	ı	I	ı	1	1	1	1	1	1	ı	1	1	1	-
Facel Colfforms		ı	ı	ı	1	Î	1	1	1	١	ı	1	ı	1	-	1
Depth		1	1	i	ı	1	3.9	-	1	-	1	ı	ı	-	-	4.00

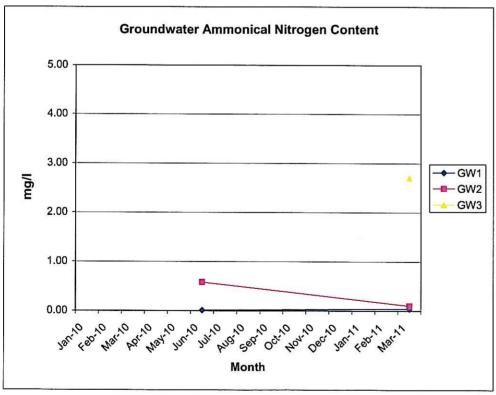








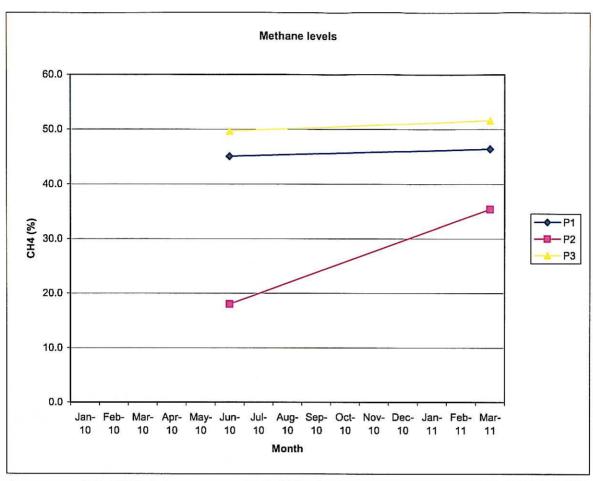


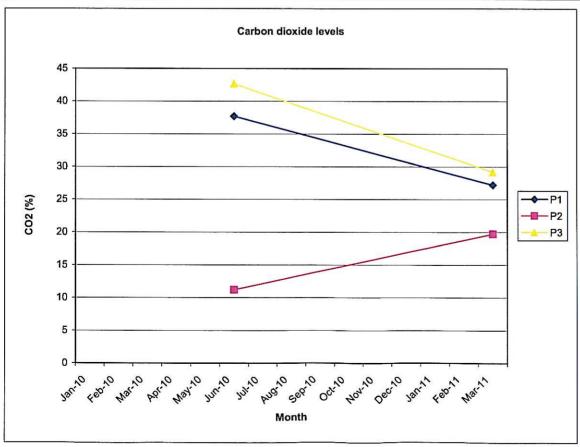


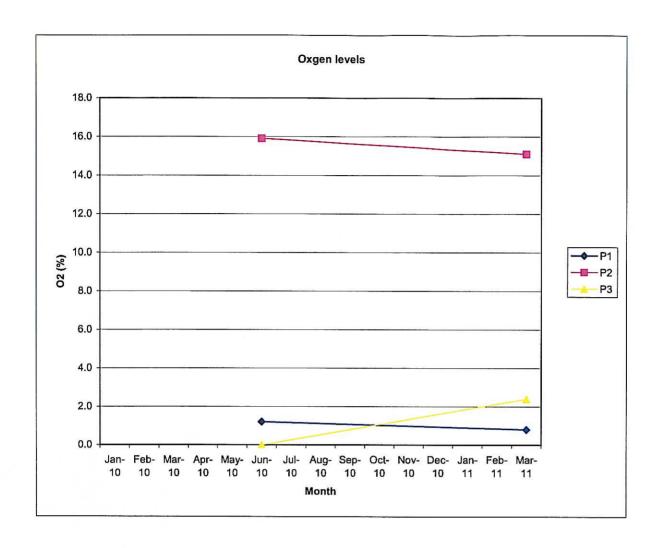
Location							N	uckish Lend	Muckish Landfill, Muckish, Co Donegal	Co Donegal				HE CONTROLLED		
Sample Type	STREET, STREET							Lan	Landfill Gas levels					THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSON NAMED IN COLUMN TO ADDRESS OF THE PERSON NAMED I		
ON edite									P	THE RUNGERS						
Date of Sample	0															
Parameters	Units	Date	Date	Date	Date	Date	Date	Date	Date	Date						
		Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Aug-10 Sep-10 Oct-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11
Methane	%						45.1									46.4
Carbon Dioxide	%						37.7									27.2
Oxygen	%						1.2									0.8
Atmos. Pressure	mBar				- X-X-		1005									1022.0

Location							V	Auckish Lan	Muckish Landfill, Muckish, Co Donegal	Co Donegal						
Sample Type								La	Landfill Gas levels	sje						
Site No									P2							
Date of Sample																
Parameters	Units	Date	Date	Date	Date	Date	Date	Date	Date	Date						
		Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10 Oct-10		Nov-10	Dec-10	Jan-11	Feb-11	Mar-11
Methane	%						18									35.4
Carbon Dioxide	%						11.2									19.7
Oxygen	%						15.9									15.1
Atmos. Pressure	mBar						1005									1022

Location							V.	fuckish Land	Muckish Landfill, Muckish, Co Donegal	Co Donegal						
edA1 ejduzs								Lan	Landfill Gas levels	9						
ON 6418									P3							
Date of Sample																
Parameters	Units	Date	Date	Date	Date	Date	Date	Date	Date	Date						
		Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11
Methane	%						49.7									51.6
Carbon Dioxide	%						42.7									29.2
Oxygen	%						0									2.4
Atmos. Pressure	mBar						1005									1022







APPENDIX B WATER BALANCE CALCULATION

MUCKISH WATER BALANCE CALCULATION

Year	Status	Rainfall (mm)	Temp Restored area			Restored area	Total Water	Leachate
			Area	infiltration IRCA(m3)	Area	infiltration IRCA(m3)		produced Lo(m3)
2010	Closed	967.5	0		20,500	1983	1983	1983
Total		968						1983

Assumptions

Assumptions			
IRCA=	Fully Capped/Restored area infiltration of rainfall estimated (2-10%),EPA Manual	10%	%
Restored area	Area capped is 20,500.	20,500	m²
Rainfall Data	Data taken from Met Eireann Station Malin Head, Total Rainfall used.	967.5	mm

APPENDIX C E-PRTR Regulations (AER Electronic Reporting System)

At the time of reporting the EPA's web-based database for the submission of PRTR the return is not available. When the return can be made a hard copy will be forwarded to the Agency under separate cover.

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Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

	RELEASES TO WATERS				Please enter all quantities	n this section in KGs		
	POLLUTANT						QUANTITY	
				Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

SECTION B. REMAINING PRIN POLLUT	RELEASES TO WATERS				Please enter all quantities	in this section in KGs		
	POLLUTANT						QUANTITY	
				Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0
			EN ISO					
79	Chlorides (as CI)	M	15682:2001	DCC SOP	789.0	789.0	0.0	0.0
	* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button							

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

		RELEASES TO WATERS				Please enter all quantities i	in this section in KGs		
		POLLUTANT						QUANTITY	
					Method Used				
	Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
						0.0	0.0	0.0	0.0
303	3	BOD	M	CRM	DCC SOP	20.82	20.82	0.0	0.0
238	8	Ammonia (as N)	M	CRM	DCC SOP	487.8	487.8	0.0	0.0
327	7	Nitrate (as N)	M	CRM	DCC SOP	0.06	0.06	0.0	0.0
332	2	Ortho-phosphate (as PO4)	M	CRM	DCC SOP	0.079	0.079	0.0	0.0
306	6	COD	M	CRM	DCC SOP	2542.2	2542.2	0.0	0.0
						0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

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	RELEASES TO AIR				Please enter all quantities	in this section in K			
	POLLUTANT			METHOD				QUANTITY	
				Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year		A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0		0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Link to previous years emissions data

SECTION B : REMAINING PRTR POLLUTANTS

	RELEASES TO AIR				Please enter all quantities	in this section in KGs		
	POLLUTANT			METHOD			QUANTITY	
				Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
55	1,1,1-trichloroethane	С	PER	Landgemv302	0.5972			0.0
03	Carbon dioxide (CO2)	С	PER	Landgemv302	205200.0	205200.0	0.0	0.0
02	Carbon monoxide (CO)	С	PER	Landgemv302	36.57	36.57	0.0	0.0
21	Mercury and compounds (as Hg)	С	PER	Landgemv302	0.0005425	0.0005425	0.0	0.0
01	Methane (CH4)	С	PER	Landgemv302	74790.0	74790.0	0.0	0.0
07	Non-methane volatile organic compounds (NMVOC)	С	PER	Landgemv302	482.2	482.2	0.0	0.0
56	1,1,2,2-tetrachloroethane	С	PER	Landgemv302	1.722	1.722	0.0	0.0
34	1,2-dichloroethane (EDC)	С	PER	Landgemv302	0.3784	0.3784	0.0	0.0
62	Benzene	С	PER	Landgemv302	1.384	1.384	0.0	0.0
35	Dichloromethane (DCM)	С	PER	Landgemv302	11.09	11.09	0.0	0.0
65	Ethyl benzene	С	PER	Landgemv302	4.55	4.55	0.0	0.0
73	Toluene	С	PER	Landgemv302	33.51	33.51	0.0	0.0
57	Trichloroethylene	С	PER	Landgemv302	3.431	3.431	0.0	0.0
60	Vinyl chloride	С	PER	Landgemv302	4.255	4.255	0.0	0.0
78	Xylenes	С	PER	Landgemv302	11.88	11.88	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

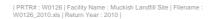
SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

	RELEASES TO AIR				Please enter all quantities	in this section in KG	S	
	POLLUTANT			METHOD			QUANTITY	
				Method Used				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0		0.0 0.	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

flared or utilised on their facilities to accompany the fig	use Gases, landfill operators are requested to provide summary data on landfill gas (Methane) jures for total methane generated. Operators should only report their Net methane (CH4) emission Sector specific PRTR pollutants above. Please complete the table below:					
Landfill:	Muckish Landfill Site				•	
Please enter summary data on the quantities of methane flared and / or						
utilised			Met	hod Used		
				Designation or	Facility Total Capacity	
	T (Total) kg/Year	M/C/E	Method Code	Description	m3 per hour	
Total estimated methane generation (as per						
site model)	74790.0	С	PER	Landgemv302	N/A	
Methane flared	0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section						
			PER	Landgemv302	N/A	





Guidance to completing the PRTR workbook

AER Returns Workbook

REFERENCE YEAR 2010

Version 1.1.12

1. FACILITY IDENTIFICATION

l	Parent Company Name	Donegal County Council
	Facility Name	Muckish Landfill Site
	PRTR Identification Number	W0126
ſ	Licence Number	W0126-01

Waste or IPPC Classes of Activity

Waste of it 1 C Classes of Activity				
No.	class_name			
3.1	The initial melting or production of iron and steel			
	Storage prior to submission to any activity referred to in a preceding			
	paragraph of this Schedule, other than temporary storage, pending			
	collection, on the premises where the waste concerned is			
3.13	produced.			

Address 1	Muckish
Address 2	Falcarragh
Address 3	Co Donegal
Address 4	
Country	Ireland
Coordinates of Location	
River Basin District	GBNIIENW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Julie Mc Mahon (W0126)
AER Returns Contact Email Address	JULIE.MCMAHON@donegalcoco.ie
AER Returns Contact Position	
AER Returns Contact Telephone Number	074 9122787
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	074 9161304
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name				
50.1	General				
50.1	General				

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

3. SULVENTS REGULATIONS (S.I. NO. 543 Of 200	12)
Is it applicable?	
Have you been granted an exemption?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being	
used ?	

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5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE	PRTR# : W0126 Facility Name : Muckish Landfill Site Filename : W0126 2010.xls Return Year : 2010

	Please enter all quantities on this sheet in Tonnes 3												
	Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment		Method Used	Location of Treatment	Haz Waste: Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover//Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
	Transier Destination	Oodc	riazaraous		Description of Waste	Operation	IVI) O/ L	Wiction Ooca	Treatment		Letterkenny		
WTTP,Magheranan,Letterke landfill leachate other than those mentioned Donegal County Council nny WTTP,Co. Within the Country 19 07 03 No 2960.0 in 19 07 02 D8 M Weighed Onsite in Ireland WWTP,D0009-01 Donegal,Ireland													

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Link to previous years waste data
Link to previous years waste summary data & percentage change

^{*} Select a row by double-clicking the Description of Waste then click the delete button